

Want A Tour That Covers A Number of PA's Academic Standards?

Paulus Orchards tours cover the following standards:

(There are so many standards that we cover – some are covered more in-depth than others. We could spend a week covering everything below! We want your tour to be perfect for your class – **please** – feel free to request that we spend more time on certain standards. We will gladly tailor the tour to your needs!!)

Number: **Standard:**

- 3.1.A Know that natural and human-made objects are made of parts. Identify system parts. Plant Anatomy.
We will talk about the parts of an apple tree and/or corn plant depending on the tour you choose.
- 3.1.E Recognize change in natural and physical systems.
Students will see photographs of our orchard during the 4 seasons and will talk about the changes they see and what happens during each season. For the in-class presentation we bring a game where students have to put laminated cards of the growth cycle of an apple tree in order.
- 3.3.A Identify life processes of living things. Plants are living organisms. Describe the basic needs of plants and animals.
We will discuss the life cycle of an apple tree of corn plant depending on the tour you choose. We discuss the needs of the tree for survival. For the
in-class presentation we bring a game where students have to put laminated cards of the growth cycle of an apple tree in order.
- 3.3.B Life Cycle of Plants and other organisms.
See 3.3.A We can also teach the anatomy of a honey bee – please let us know if you are interested.
- 3.3.C New plants can grow from parts of mature plants.
For the older students we can discuss grafting which we routinely do at our orchard. Please let us know when you book your tour that you are interested in us teaching this.
- 3.4.C Explain how different seasons effect plants, animals, food availability and daily life.
Students will see photographs of our orchard during the 4 seasons and will talk about the changes they see and what happens during each season. We discuss when crops are harvested – and let them know that even though they can find apples 12 months a year in the grocery store, they are not picked 12 months a year!

- 4.2A Identify plants, animals, water, air and minerals as natural resources. Identify how the environment provides for the needs of people. *We will talk about what a natural resource is and have the students determine if certain objects are natural resources or not. We will also talk about the environment and the use of our local environment for growing food.*
- 4.2B Identify Products from natural resources. Identify products made from trees. Identify by-products of plants and animals. *During the tour, we discuss a number of products made from the farm. For the in-class presentation we bring a relay-type game where students have to determine where products came from.*
- 4.3.A Plants need air, water, and light to grow.
- 4.4A Know the importance of agriculture to humans. Know how people depend on agriculture.
- 4.4.B Identify local agricultural products. *We will be happy to compare and contrast PA farms with farms in other parts of the country. Please let us know if you would like us to do this.*
- 4.4.C Identify what plants and animals need to grow. Identify agricultural products that are local. Describe the journey of a local agricultural product from production to the consumer. *We enjoy teaching children how apple get to their homes and that there is a lot more to it than going to the grocery store! We will show them how the apple starts as a blossom and take them through the entire process of getting it from our trees to their homes.*
- 4.4.D Identify various tools and machinery for farming. *Students will see tractors, sprayers, cooler (large refrigerated room where produce can be stored), apple grader, and various other pieces of equipment.*
- 4.6.A Identify environmental variables that affect plant growth. *We will be happy to discuss how the environment plays a huge role in the growth and development of plants. Our orchard was hit by a tornado a number of years ago. Let us know if you would like us to discuss more about this.*
- 4.8.D Know the importance of natural resources in daily life. Identify items used in daily life that come from natural resources. Identify ways to

conserve natural resources. Identify major land uses in the community.
We can come to your class and teach on this standard.